

JAPANESE [JP,3076768,U]

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CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE  
INVENTION TECHNICAL PROBLEM MEANS EXAMPLE DESCRIPTION OF DRAWINGS  
DRAWINGS

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**CLAIMS**

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[Utility model registration claim]

[Claim 1] The \*\*\*\* arrester for vehicles which consists of the movable free case installed in the dashboard of a vehicle, an infrared transmitter held in this case, a controller which controls this infrared transmitter, and the power cord or power supply section which prepared in said case.

[Claim 2] The \*\*\*\* arrester for vehicles which consists of the movable free case installed toward the aperture of a vehicle, the infrared transmitter held in this case, a controller which controls this infrared transmitter, a cooler which cools this controller, and the power cord or power supply section which prepared in said case.

[Claim 3] The \*\*\*\* arrester for vehicles characterized by making a windowpane produce a halation phenomenon with the infrared transmitter of claims 1 and 2.

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DETAILED DESCRIPTION

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[Detailed explanation of a design]

[0001]

[The technical field to which a design belongs]

This design is related with the \*\*\*\* arrester for vehicles.

[0002]

[Description of the Prior Art]

Conventionally, from the aperture of a vehicle, to photography, a peep, etc., since it was defenseless, there is a grave trouble which the trouble and/or crime based on said action have generated. In order to solve this trouble, the alarm or the shield is used. However, with the conventional configuration, new problems, like that handling is troublesome or use under vehicle transit cannot be performed are pointed out.

[0003]

In addition, as the alarm which used the infrared transmitter like this design, and a criminal arrester, there are breakage detection equipment (reference (1)) of the windowpane of JP,2000-207648,A and an alarm (reference (2)) of JP,7-160970,A. However, this reference (1) and (2) regard an infrared transmitter as one of the detection means, they form an infrared receiver so that face to face may be stood against the infrared transmitter concerned, receive with this infrared receiver and aim dispatch of the infrared transmitter concerned at specification or \*\*\*\*\* of a criminal act.

[0004]

[Problem(s) to be Solved by the Device]

Although an infrared transmitter is used, it is a configuration used by the pair with an infrared receiver, and the above-mentioned reference (1) and (2) are shown in moreover aiming at breakage or theft prevention of glass. Therefore, this design differs from the configuration which makes a windowpane produce a halation phenomenon with the infrared transmitter made into the purpose, or \*\*\*\* (stealing and photographing) prevention.

[0005]

Moreover, with the configuration of said reference (1) and (2), \*\*\*\* (stealing and photographing) prevention of this design is impossible.

[0006]

[Means for Solving the Problem]

The design of claim 1 makes the windshield of a vehicle produce a halation phenomenon, catches aiming at \*\*\*\* prevention or people's eye line, produces a halation phenomenon certainly, and aims at aiming at \*\*\*\* prevention etc.

[0007]

Claim 1 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed in the dashboard of a vehicle, an infrared transmitter held in this case, a controller which controls this infrared transmitter, and the power cord or power supply section which prepared in said case.

[0008]

The design of claim 2 makes all the abbreviation for the windowpane of a vehicle produce a halation phenomenon, catches aiming at \*\*\*\* prevention or people's eye line, produces a halation phenomenon certainly, and aims at aiming at \*\*\*\* prevention etc.

[0009]

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Claim 2 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed toward the aperture of a vehicle, the infrared transmitter held in this case, a controller which controls this infrared transmitter, a cooler which cools this controller, and the power cord or power supply section which prepared in said case.

[0010]

The design of claim 3 aims at securing the optimal situation of making a windshield and its windowpane producing a halation phenomenon.

[0011]

Claim 3 is a \*\*\*\* arrester for vehicles characterized by making a windowpane produce a halation phenomenon with an infrared transmitter.

[0012]

[The gestalt of implementation of a design]

An example of operation of this design is explained. If an example set to a windshield explains the \*\*\*\* arrester for vehicles (it considers as a \*\*\*\* arrester below), a \*\*\*\* arrester will be installed in a dashboard and the infrared transmitter of a case will be set to the view target of a windshield. And it is the epoch-making self-defense system which prevents \*\*\*\* from a lifting and an infrared stroboscope camera for halation, and protects privacy by always irradiating infrared radiation from an infrared transmitter inside a windshield. The timing count circuit (a quick response / 1/1000 second) doubled with the shutter speed of a CCD camera is built in a \*\*\*\* arrester (a trade name, Stinger) by this, and infrared radiation is always irradiated by it. Therefore, even if it \*\*\*\* when, with a CCD stroboscope camera, it will be in the condition that nothing is seen, as a result.

[0013]

In addition, since special LED (referred to as special LED) equipped with for example, opposite \*\*\*\*, earthquake resistance, destruction-proof nature, etc. is used for the infrared transmitter of this \*\*\*\* arrester, there is also no ball piece and the durability also of the incorrect actuation by the temperature rise is carried out to -20 degrees C - about +80 degrees C, unless a circuit severs, there is utility of being able to use it semipermanently.

[0014]

Moreover, the infrared radiation irradiated is effective also to the "infrared camera" which can sense the wavelength of the range exceeding the range which can be sensed by human being's eyes, i.e., wavelength 400 nm-700nm a "visible ray." Therefore, it is effective to a commercial infrared camera etc.

[0015]

[Example]

Hereafter, one example of this design is explained.

[0016]

1 is the case where it has a translucent part 100, and uses as the main component the infrared transmitter 2 (several special LED200 which sends infrared radiation is formed), and the timing count circuit 3 (an example of a control section) made to correspond to the shutter speed of a CCD camera, an electric power switch 4 and the IC cooler 5 (an example of a control section) for circuit protection at this case 1. In addition, the infrared transmitter 2 of the infrared film and other infrared transmitter material other than said LED200 being included is natural.

[0017]

and the infrared radiation irradiated from the CCD camera (it is an example and other cameras are included) about this design -- receiving -- abbreviation -- to the same or, completely same timing, it is the configuration which irradiates infrared radiation, and the beams of light with the same wavelength negate each other, and infrared photography is made more nearly impossible than a \*\*\*\* arrester. That is, \*\*\*\* by the infrared radiation of an infrared camera is made impossible by making the windshield H of a vehicle (not shown) generate halation by luminescence of LED200 built in ahead of the case 1.

[0018]

In addition, said each LED200 has the desirable configuration every one piece each of whose discharges infrared radiation to a wide angle.

Moreover, a case 1 is formed in a dashboard H1 free [ rocking ].

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As for the inside H2 of drawing, the view when sitting down and H3 show the view formed in Windshield H. In addition, although not illustrated, installing to other windowpanes of a vehicle is possible.

[0019]

[Effect of the Device]

The design of claim 1 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed in the dashboard of a vehicle, an infrared transmitter held in the case, a controller which controls an infrared transmitter, and the power cord or power supply section which prepared in the case.

Therefore, the windshield of a vehicle is made to produce a halation phenomenon, \*\*\*\* prevention being aimed at or people's eye line is caught, a halation phenomenon is produced certainly, and there are the descriptions, like \*\*\*\* prevention can be aimed at.

[0020]

The design of claim 2 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed toward the aperture of a vehicle, the infrared transmitter held in the case, a controller which controls an infrared transmitter, a cooler which cools a controller, and the power cord or power supply section which prepared in the case. Therefore, all the abbreviation for the windowpane of a vehicle is made to produce a halation phenomenon, \*\*\*\* prevention being aimed at or people's eye line is caught, a halation phenomenon is produced certainly, and there are the descriptions, like \*\*\*\* prevention can be aimed at.

[0021]

The design of claim 3 is a \*\*\*\* arrester for vehicles characterized by making a windowpane produce a halation phenomenon with an infrared transmitter. Therefore, there is utility which can secure the optimal situation of making RONT glass and its windowpane producing a halation phenomenon.

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PRIOR ART

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[Description of the Prior Art]

Conventionally, from the aperture of a vehicle, to photography, a peep, etc., since it was defenseless, there is a grave trouble which the trouble and/or crime based on said action have generated. In order to solve this trouble, the alarm or the shield is used. However, with the conventional configuration, new problems, like that handling is troublesome or use under vehicle transit cannot be performed are pointed out.

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In addition, as the alarm which used the infrared transmitter like this design, and a criminal arrester, there are breakage detection equipment (reference (1)) of the windowpane of JP,2000-207648,A and an alarm (reference (2)) of JP,7-160970,A. However, this reference (1) and (2) regard an infrared transmitter as one of the detection means, they form an infrared receiver so that face to face may be stood against the infrared transmitter concerned, receive with this infrared receiver and aim dispatch of the infrared transmitter concerned at specification or \*\*\*\*\* of a criminal act.

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EFFECT OF THE INVENTION

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[Effect of the Device]

The design of claim 1 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed in the dashboard of a vehicle, an infrared transmitter held in the case, a controller which controls an infrared transmitter, and the power cord or power supply section which prepared in the case.

Therefore, the windshield of a vehicle is made to produce a halation phenomenon, \*\*\*\* prevention being aimed at or people's eye line is caught, a halation phenomenon is produced certainly, and there are the descriptions, like \*\*\*\* prevention can be aimed at.

[0020]

The design of claim 2 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed toward the aperture of a vehicle, the infrared transmitter held in the case, a controller which controls an infrared transmitter, a cooler which cools a controller, and the power cord or power supply section which prepared in the case. Therefore, all the abbreviation for the windowpane of a vehicle is made to produce a halation phenomenon, \*\*\*\* prevention being aimed at or people's eye line is caught, a halation phenomenon is produced certainly, and there are the descriptions, like \*\*\*\* prevention can be aimed at.

[0021]

The design of claim 3 is a \*\*\*\* arrester for vehicles characterized by making a windowpane produce a halation phenomenon with an infrared transmitter. Therefore, there is utility which can secure the optimal situation of making RONT glass and its windowpane producing a halation phenomenon.

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TECHNICAL PROBLEM

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[Problem(s) to be Solved by the Device]

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Moreover, with the configuration of said reference (1) and (2), \*\*\*\* (stealing and photographing) prevention of this design is impossible.

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MEANS

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[Means for Solving the Problem]

The design of claim 1 makes the windshield of a vehicle produce a halation phenomenon, catches aiming at \*\*\*\* prevention or people's eye line, produces a halation phenomenon certainly, and aims at aiming at \*\*\*\* prevention etc.

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Claim 2 is a \*\*\*\* arrester for vehicles which consists of the movable free case installed toward the aperture of a vehicle, the infrared transmitter held in this case, a controller which controls this infrared transmitter, a cooler which cools this controller, and the power cord or power supply section which prepared in said case.

[0010]

The design of claim 3 aims at securing the optimal situation of making a windshield and its windowpane producing a halation phenomenon.

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[0012]

[The gestalt of implementation of a design]

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EXAMPLE

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[Example]

Hereafter, one example of this design is explained.

[0016]

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[0019]

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is an expansion block diagram explaining an example of the circuit structure in the \*\*\*\* arrester of this design.

[Drawing 2] It is a mimetic diagram explaining an example of use of this design.

[Description of Notations]

1 Case

100 Translucent Part

2 Infrared Transmitter

200 LED

3 Timing Count Circuit

4 Electric Power Switch

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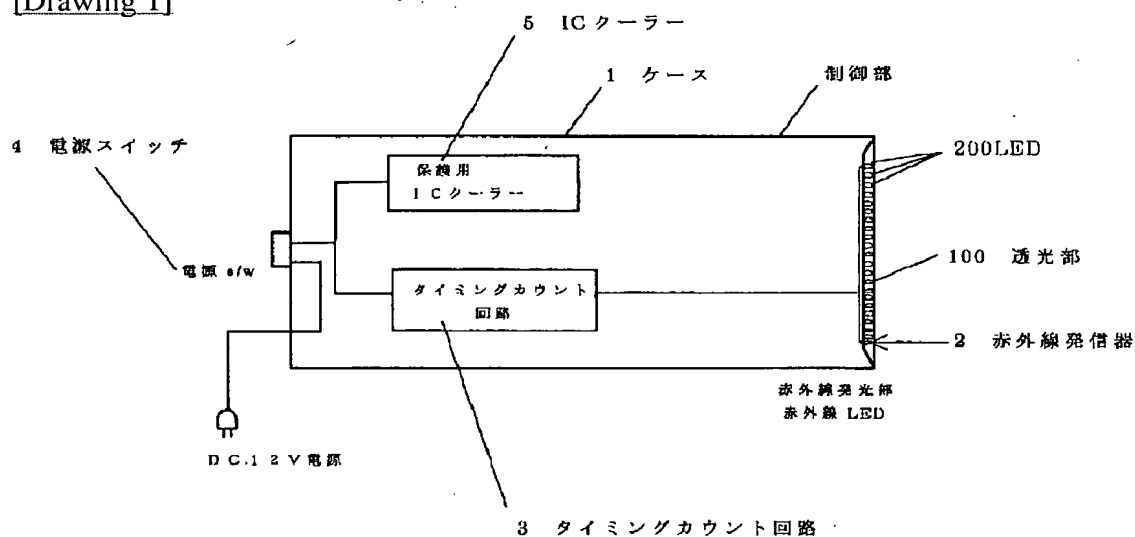
## \* NOTICES \*

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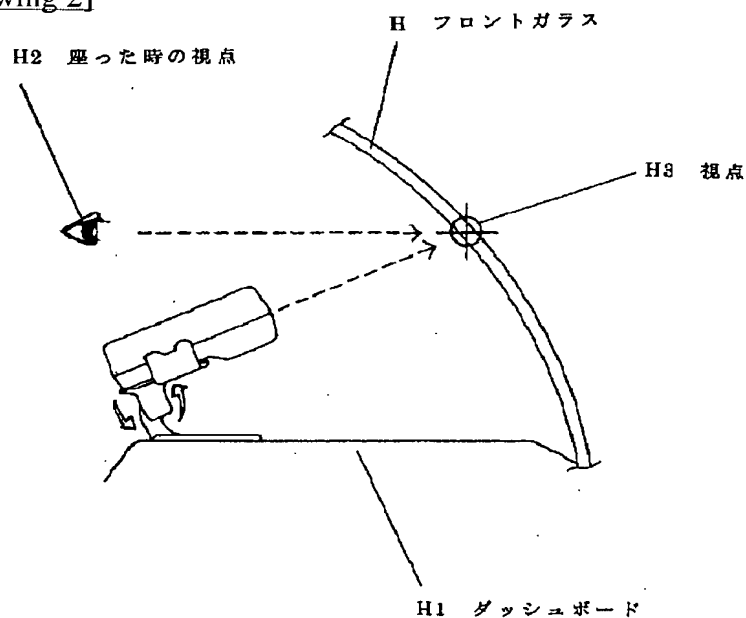
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## DRAWINGS

[Drawing 1]



[Drawing 2]



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(11) 実用新案登録番号

實用新案登録第3076768号  
(U3076768)

(24)登録日 平成13年1月24日(2001.1.24)

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識別記号

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$$\mathbf{Z}$$

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(22) 出願日 平成12年10月4日(2000. 10. 4)

(73) 實用新案權者 599023842

株式会社 アルファブ로그レス

名古屋市天白区中平4丁目1403-1102

(72) 考案者 宇佐美 浩二

名古屋市天白区中平4丁目1403-1102 株

式会社アルファプログレス内

(74) 代理人 100083068

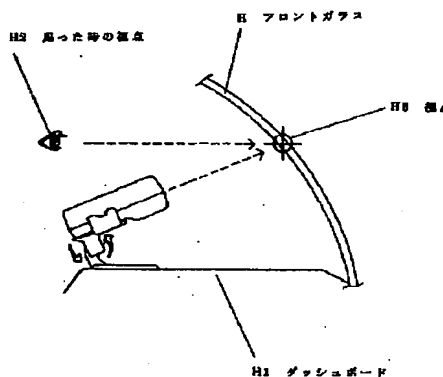
井理士 竹中 一宣

(54)【考案の名称】 車輛用の盜撮防止装置

(57) 【要約】

【課題】 従来技術は、赤外線発信器と、赤外線受信器とのセットであり、この赤外線発信器の赤外線を、赤外線受信器でキャッチして、ガラスの破損、又は盗難防止を図ることにある。従って、本考案が目的とする赤外線発信器で窓ガラスにハレーション現象を生じさせること、又は盗撮(盗み撮り)防止することは、期待できない。

【構成】 本考案は、車輛のダッシュボードH1に設置される可動自在のケース1と、ケースに收容した赤外線発信器2と、赤外線発信器をコントロールする制御器と、ケースに設けた電源コネクタ又は電源部とで構成される車輛用の盗撮防止装置である。従って、車輛のフロントガラスH1にハレーション現象を生じさせて、盗撮防止が図れる。また人の視線を捉えて確実にハレーション現象を生じさせて、盗撮防止が図れる。



1

2

【実用新案登録請求の範囲】

【請求項1】 車両のダッシュボードに設置される可動自在のケースと、このケースに収容した赤外線発信器と、この赤外線発信器をコントロールする制御器と、前記ケースに設けた電源コード又は電源部とで構成される車両用の盗撮防止装置。

【請求項2】 車両の窓に向かって設置される可動自在のケースと、このケースに収容した赤外線発信器と、この赤外線発信器をコントロールする制御器と、この制御器を冷却するクーラーと、前記ケースに設けた電源コード又は電源部とで構成される車両用の盗撮防止装置。

【請求項3】 請求項1、2の赤外線発信器により、窓ガラスにハレーション現象を生じさせることを特徴とする車両用の盗撮防止装置。

【図面の簡単な説明】

【図1】 本考案の盗撮防止装置における回路構造の一例

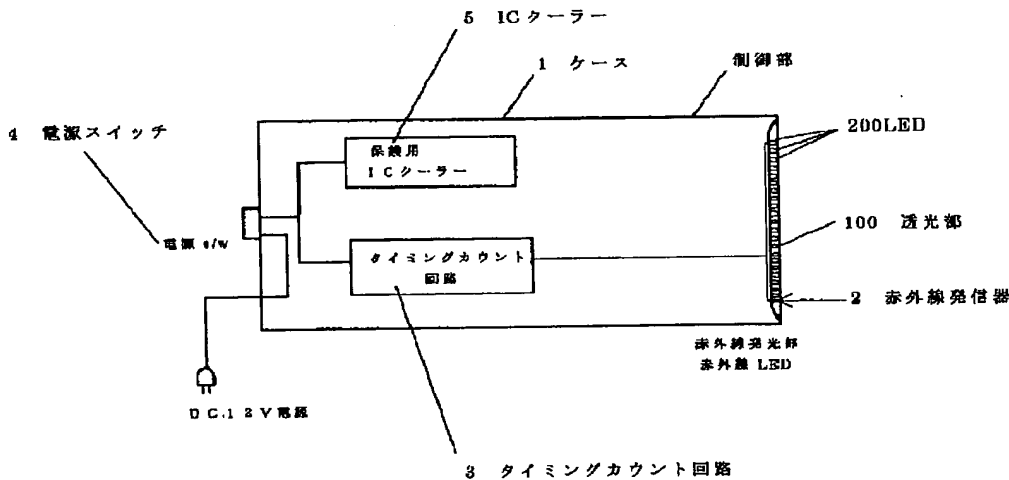
を説明する拡大ブロック図である。

【図2】 本考案の使用の一例を説明する模式図である。

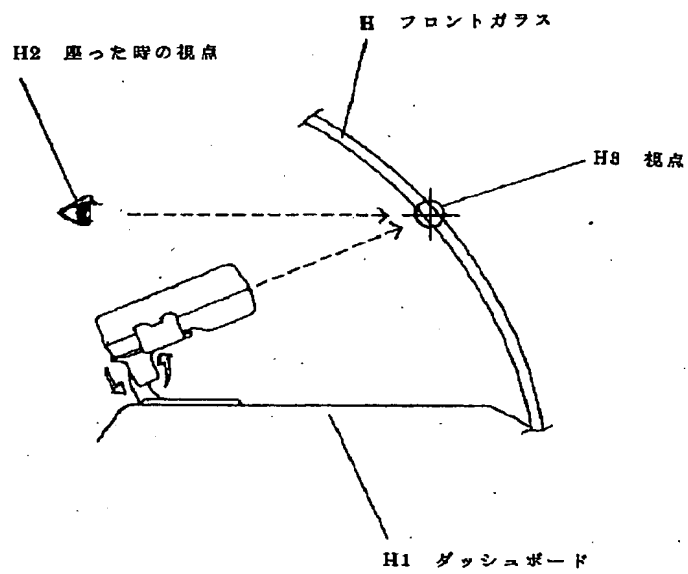
【符号の説明】

- 1 ケース
- 100 透光部
- 2 赤外線発信器
- 200 LED
- 3 タイミングカウント回路
- 4 電源スイッチ
- 10 5 ICクーラー
- H フロントガラス
- H1 ダッシュボード
- H2 視点
- H3 視点

【図1】



【図2】



## 【考案の詳細な説明】

【0001】

## 【考案の属する技術分野】

本考案は、車輛用の盗撮防止装置に関する。

【0002】

## 【従来技術】

従来、車輛の窓から撮影、覗き等に対しては無防備であったので、前記行為に基づくとらわれ及び／又は犯罪が発生している由々しき問題点がある。この問題点を解決するために警報装置又は遮蔽板等が利用されている。しかし、従来の構成では、取扱いが面倒であること、または車輛走行中の使用はできないこと、等の新たな問題が指摘されている。

【0003】

尚、本考案と同様に赤外線発信器を利用した警報、犯罪防止装置としては、特開2000-207648号の窓ガラスの破損検出装置(文献(1))と、特開平7-160970号の警報器(文献(2))がある。しかし、この文献(1)、(2)は、赤外線発信器を検知手段の一つとして捉え、当該赤外線発信器に対峙するように赤外線受信機を設け、当該赤外線発信器の発信を、この赤外線受信機で受信して、犯罪行為の特定又は盗難防止等を目的とする。

【0004】

## 【考案が解決しようとする課題】

上記文献(1)、(2)は、赤外線発信器は使用するものの赤外線受信器との対で使用する構成であり、しかもガラスの破損、又は盗難防止を図ることにある。従って、本考案が目的とする赤外線発信器で窓ガラスにハレーション現象を生じさせる構成、又は盗撮(盗み撮り)防止とは異なる。

【0005】

また前記文献(1)、(2)の構成では、本考案の盗撮(盗み撮り)防止は不可能である。

【0006】

## 【課題を解決するための手段】

請求項1の考案は、車輛のフロントガラスにハレーション現象を生じさせて、盗撮防止を図ること、又は人の目線を捉えて確実にハレーション現象を生じさせて、盗撮防止を図ること、等を目的とする。

【0007】

請求項1は、車輛のダッシュボードに設置される可動自在のケースと、このケースに収容した赤外線発信器と、この赤外線発信器をコントロールする制御器と、前記ケースに設けた電源コード又は電源部とで構成される車輛用の盗撮防止装置である。

【0008】

請求項2の考案は、車輛の窓ガラスの略全部にハレーション現象を生じさせて、盗撮防止を図ること、又は人の目線を捉えて確実にハレーション現象を生じさせて、盗撮防止を図ること、等を目的とする。

【0009】

請求項2は、車輛の窓に向かって設置される可動自在のケースと、このケースに収容した赤外線発信器と、この赤外線発信器をコントロールする制御器と、この制御器を冷却するクーラーと、前記ケースに設けた電源コード又は電源部とで構成される車輛用の盗撮防止装置である。

【0010】

請求項3の考案は、フロントガラス、その窓ガラスにハレーション現象を生じさせる最適な状況を確認することを目的とする。

【0011】

請求項3は、赤外線発信器により、窓ガラスにハレーション現象を生じさせることを特徴とする車輛用の盗撮防止装置である。

【0012】

【考案の実施の形態】

本考案の実施の一例を説明する。車輛用の盗撮防止装置（以下盗撮防止装置とする）をフロントガラスにセットする一例で説明すると、ダッシュボードに盗撮防止装置を設置し、ケースの赤外線発信器をフロントガラスの視点目標にセットする。そして、フロントガラスの内側に赤外線発信器より赤外線を常時照射することによって、ハレーションを起こし、赤外線反射カメラからの盗撮を防ぎ、プライバシーを保護する画期的な自己防衛システムで

ある。これによって、盗撮防止装置(商品名、スティンガー)にはCCDカメラのシャッタースピードに合わせてタイミング カウント回路(クイックストップ/1000分の1秒)が内蔵され、常時赤外線照射している。従って、いつ盗撮されたとしても、結果的にCCDカメラでは、何も見えない状態になる。

#### 【0013】

尚、この盗撮防止装置の赤外線発信器には、例えば、対光性、耐震性、耐破壊性等を備えた特殊なLED(特殊LEDとする)を使用することから、球切れもなく、温度上昇による誤作動も、 $-20^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 程度迄耐久するので、回路が断絶しない限り、半永久的に使用できる等の実益がある。

#### 【0014】

また照射される赤外線は、人間の目で感知できる範囲、即ち、波長400 nm $\sim$ 700nmの「可視光線」を、上回る範囲の波長を感知できる「赤外線カメラ」に対しても有効である。従って、市販の赤外線カメラ等に対して有効である。

#### 【0015】

##### 【実施例】

以下、本考案の一実施例を説明する。

#### 【0016】

1は透光部100を有するケースで、このケース1には赤外線発信器2(赤外線を発信する特殊LED200が数本設けられる)と、例えば、CCDカメラのシャッタースピードに対応させたタイミング カウント回路3(制御部の一例)と、電源スイッチ4と、回路保護の為にICクーラー5(制御部の一例)とを主構成要素とする。尚、赤外線発信器2は、前記LED200の他に、例えば、赤外線フィルム、他の赤外線発信器材を含むことは勿論である。

#### 【0017】

そして、本考案では、CCDカメラ(一例であり、他のカメラを含む)から照射された赤外線に対して、略同じ又は全く同じタイミングで、盗撮防止装置より赤外線を照射する構成であり、波長の同じ光線どうしが打ち消し合い赤外線撮影を不可能とする。即ち、ケース1の前方に内蔵されているLED200の発光により、車輛(図示せず)のフロントガラス面にハレーションを発生させることで、例えば、赤外線カメラの赤外線による盗撮を不可能とする。

## 【0018】

尚、前記各LED200は、各1個ずつが赤外線を広角に発射する構成が望ましい。  
またケース1は、ダッシュボードH1に揺動自在に設ける。  
図中H2は座った時の視点、H3はフロントガラスHに形成される視点を示す。尚、図示しないが、車輛の他の窓ガラスに対して設置することは可能である。

## 【0019】

## 【考案の効果】

請求項1の考案は、車輛のダッシュボードに設置される可動自在のケースと、ケースに収容した赤外線発信器と、赤外線発信器をコントロールする制御器と、ケースに設けた電源コード又は電源部とで構成される車輛用の盗撮防止装置である。従って、車輛のフロントガラスにハレーション現象を生じさせて、盗撮防止が図れること、又は人の目線を捉えて確実にハレーション現象を生じさせて、盗撮防止が図れること、等の特徴がある。

## 【0020】

請求項2の考案は、車輛の窓に向って設置される可動自在のケースと、ケースに収容した赤外線発信器と、赤外線発信器をコントロールする制御器と、制御器を冷却するケースと、ケースに設けた電源コード又は電源部とで構成される車輛用の盗撮防止装置である。従って、車輛の窓ガラスの略全部にハレーション現象を生じさせて、盗撮防止が図れること、又は人の目線を捉えて確実にハレーション現象を生じさせて、盗撮防止が図れること、等の特徴がある。

## 【0021】

請求項3の考案は、赤外線発信器により、窓ガラスにハレーション現象を生じさせることを特徴とする車輛用の盗撮防止装置である。従って、フロントガラス、その窓ガラスにハレーション現象を生じさせる最適な状況を確保できる実益がある。

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